**BD Oncomark™**

**Anti-Kappa/Anti-Lambda/CD19**

Catalog No. 341150  
50 Tests  
20 µL/test  
Not for sale in the US

### RESEARCH APPLICATIONS

This combination of reagents can be useful in studying the presence and extent of clonal expansion in B-lymphoproliferative disorders. Abnormal kappa/lambda ratios or intensities are strong indicators of clonal processes. Additional information might also be obtained by simultaneous analysis using the CD20 or CD5 APC antigens. Other reagents that might be useful for characterization of aberrant B-cell populations include CD10, CD103, CD23, and FMC7.

### DESCRIPTION

#### Specificity

- **Anti-Kappa** is specific for kappa light chains of human immunoglobulins.
- **Anti-Lambda** is specific for lambda light chains of human immunoglobulins.
- **CD19** (SJ25C1) recognizes a 90-kilodalton (kDa) antigen that is present on human B lymphocytes.

#### Antigen distribution

Immunoglobulins bearing kappa light chains are present on approximately 50% of normal lymphocytes and on Igκ+ leukemic cells. In serum, Anti-Kappa reacts with immunoglobulins bearing kappa light chains as well as free kappa light chains.

Immunoglobulins bearing lambda light chains are present on approximately 50% of normal B lymphocytes and on Igλ+ leukemic cells. In serum, Anti-Lambda reacts with immunoglobulins bearing lambda light chains as well as free lambda light chains.

The CD19 antigen is present on approximately 7–23% of human peripheral blood lymphocytes and on splenocytes. The CD19 antigen is present on human B lymphocytes at most stages of maturation. CD19 does not react with resting or activated T lymphocytes, granulocytes, or monocytes.

#### Clones

The **Anti-Kappa** antibody, clone TB28-2, is derived from hybridization of P3-X63-Ag8.653 mouse myeloma cells with cells from CB6 (BC57b x BALB/c) mice immunized with human IgG-κ myeloma protein.

The **Anti-Lambda** antibody, clone 1-155-2, is derived from hybridization of P3-X63-Ag8.653 mouse myeloma cells with cells from BALB C/J mice immunized with human IgA1-λ myeloma protein.

The **CD19** antibody, clone SJ25C1, is derived from the hybridization of Sp2/0 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with NALM1 + NALM16 cells.

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* This clone has not been submitted to any previous workshop on human leukocyte differentiation antigens.

**For Research Use Only. Not for use in diagnostic or therapeutic procedures.**
Composition

The Anti-Kappa, Anti-Lambda, and CD19 antibodies are each composed of mouse IgG1 heavy chains and kappa light chains.

The Anti-Kappa/Anti-Lambda/CD19 reagent is supplied as a combination of Anti-Kappa FITC, Anti-Lambda PE (≥95% 1:1 PE:mAb ratio), and CD19 PerCP-Cy™5.5 in 1 mL of phosphate-buffered saline (PBS) with 0.1% sodium azide.

PROCEDURE

Visit our website (bdbiosciences.com) or contact your local BD representative for the lyse/wash protocol for direct immunofluorescence.

To avoid serum interference when using this reagent:

1. Prewash the whole blood sample using at least 2.5 volumes of excess 1X PBS with 0.1% sodium azide (48 mL of 1X PBS with sodium azide per 2 mL of whole blood to be washed) and mix well.

2. Pellet cells by centrifugation.

3. Resuspend in 1X PBS with 0.1% sodium azide to the original volume.

REPRESENTATIVE DATA

Flow cytometric analysis was performed on whole blood stained and lysed using BD FACS™ lysing solution (Cat. No. 349202). Representative data analyzed with a BD FACS™ brand flow cytometer is shown in the following plots.

HANDLING AND STORAGE

Store vials at 2°C–8°C. Conjugated forms should not be frozen. Protect from exposure to light. Each reagent is stable until the expiration date shown on the bottle label when stored as directed.

WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection29,30 and dispose of with proper precautions in accordance with federal, state, and local regulations. Never pipette by mouth. Wear suitable protective clothing, eyewear, and gloves.

CHARACTERIZATION

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

WARRANTY

Unless otherwise indicated in any applicable BD general conditions of sale for non-US customers, the following warranty applies to the purchase of these products.

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REFERENCES


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